

Receiving Report

Date:

Batch No:

Supplier:

Dart P/O:

Packing Slip:

Yes

No

Release Note Attached:

Yes

No

N/A

Invoice:

Yes

No

Waybill Attached:

Yes

~~No~~

• • • • •

Receipt:

Cas

Cr

Shipment Comp
QC6 Inspection

☒ Yes

No

N/A

Work Order

N/A

Discrepancies

| Discrepancies | | | | | | |
|---------------|-------------|------------------|-------------------|-------------------|----------------|----------|
| Part Number | Description | Quantity Ordered | Quantity Received | Quantity Returned | Quantity Short | Comments |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Initials of receiver (if shipment OK) Level 12

Production/Admin:

Date _____

Received/Costing

Initial

Location

Purchase Order Receipt Listing

Thursday, January 17, 2013 8:15:04 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18727 Receipt Dates from 1/17/2013 to 1/17/2013 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

| Purchase Order ID/ Curr Type | Line Nbr/ Insp | Project ID | Reference/ Description/ Cert Std | PO U/M/ Stock U/M | Required Qty | Recv Date/ Recv Emp | Recv Qty (PO U/M) | Cost Per Unit/ Recv Value | Inspected Qty/ Rejected Qty (PO U/M) | MRB Qty/ MRB Reject Qty | Book Amt |
|---|-------------------|------------|--|----------------------|--------------|------------------------|----------------------|------------------------------|--|----------------------------|----------|
| Vendor ID/Vendor Name VU-FAC001 Factory Steel | | | | | | | | | | | |
| PO18727 | 1 | | M4130NT0.750W.04 f | | 1/15/2013 | 1/17/2013 | 117.5000 | \$6.39 | 0.0000 | 0 | \$750.83 |
| USD | No | | 4130 RD Tube .750 f | | 115.0000 | DESJ02 | | \$750.83 | 0.0000 | 0 | |
| | | | x.049W | | | | | | | | |
| | | | 124293 | | | | | | | | |
| 2 | | | M4130NT0.750W.08 f | | 1/15/2013 | 1/17/2013 | 26.0000 | \$8.10 | 0.0000 | 0 | \$210.60 |
| No | | | 4130 RD Tube .750 f | | 25.0000 | DESJ02 | | \$210.60 | 0.0000 | 0 | |
| | | | x.083W | | | | | | | | |
| | | | 124293 | | | | | | | | |
| 3 | | | M4130NT1.000W.12 f | | 1/15/2013 | 1/17/2013 | 24.5000 | \$10.45 | 0.0000 | 0 | \$256.03 |
| No | | | 4130 RD Tube 1.00 x f | | 24.0000 | DESJ02 | | \$256.03 | 0.0000 | 0 | |
| | | | 120wall | | | | | | | | |
| | | | 124293 | | | | | | | | |
| 4 | | | M4130NT0.500W.04 f | | 1/15/2013 | 1/17/2013 | 51.0000 | \$7.20 | 0.0000 | 0 | \$367.20 |
| No | | | 4130 RD Tube 500 f | | 48.0000 | DESJ02 | | \$7.20 | 0.0000 | 0 | |
| | | | x.049W | | | | | | | | |
| | | | 124293 | | | | | | | | |
| 5 | | | M4130NT0.500W.08 f | | 1/15/2013 | 1/17/2013 | 23.0000 | \$8.38 | 0.0000 | 0 | \$192.74 |
| No | | | 4130 RD tube .500 x f | | 23.0000 | DESJ02 | | \$192.74 | 0.0000 | 0 | |
| | | | x.083W | | | | | | | | |
| | | | 124293 | | | | | | | | |
| 6 | | | 71475-25 | Each | 1/15/2013 | 1/17/2013 | 1.0000 | \$35.00 | 0.0000 | 0 | \$35.00 |
| No | | | PACKING FEE | | 1.0000 | DESJ02 | | \$35.00 | 0.0000 | 0 | |
| | | | 124293 | | | | | | | | |

| Purchase Order ID/ Curr Type | Line Nbr/ Insp Req | Project ID | Reference/ Description/ Cert Std | PO U/M / Stock U/M | Required Date | Recv Date/ Recv Emp | Recv Qty (PO U/M) | Cost Per Unit/ Recv Value | Inspected Qty/ Rejected Qty (PO U/M) | MRB Qty/ MRB Reject Qty | Book Amt |
|---------------------------------|-----------------------|------------|--|-----------------------|---------------|------------------------|----------------------|------------------------------|--|----------------------------|------------|
| Total Received Quantity: | | | | | | | | | | | 243.0000 |
| Total Qty to Inspect (PO U/M): | | | | | | | | | | | 0.0000 |
| Total Reject Quantity: | | | | | | | | | | | 0.0000 |
| Total Receipt Value: | | | | | | | | | | | \$1,812.39 |
| Total Balance Due Quantity: | | | | | | | | | | | 0.0000 |

PACKING LIST

No. 35731

PG 1 OF 2



FACTORY STEEL & METAL SUPPLY
14020 OAKLAND AVENUE
DETROIT, MI 48203

(313)883-6300 PHONE
(313)883-4883 FAX

SOLD TO

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

PURCHASE ORDER #

P018727

JOB NAME

SALES ORDER #

30587

SHIP TO

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

ORDER DATE

01/07/2013

BUYER

CHANTEL CLAVOIE

Tel (613) 632-3336

Fax (613) 632-4443

SALES REP

MICK HALON

SHIP INST

YRC

PRO#

761-645-8138

TERMS

NET 30 DAYS

SHIP DATE

01/08/2013

SHIP VIA

YRC

RESALE #

59-2958719

CARRIER

YRC

BLIND Y/N

N

FOB

DETROIT

| LINE | QUANTITY | DESCRIPTION | WIDTH | LENGTH | WEIGHT | UNIT PRICE | TOTAL |
|----------|----------|--|--------------|--------|--------|------------|-------|
| 2 | 26 FT | 4130 CD SMLSS RD TUBE 3/4" OD X .083W Our Tag # Mill Ref # Heat # 83927 745838 | 10' / 23' PL | 25' RL | 43.099 | | |
| 3 | 24.5 FT | 4130N CD SMLSS RD TUBE 1" OD X .120W Our Tag # Mill Ref # Heat # 83928 001M39509 | 24' / 26' RL | | 27.636 | | |
| 4 | 51 FT | 4130N CD SMLSS RD TUBE 1 1/2" OD X .049W Our Tag # Mill Ref # Heat # 83929 556126 | 19' / 24' RL | | 12.036 | | |
| 5 | 24 FT | 4130N CD SMLSS RD TUBE 1 1/2" OD X .083W Our Tag # Mill Ref # Heat # 83930 137954 556125 | 23' RL | | 8.870 | | |
| TOTAL WT | | | | | | | TOTAL |

43/01/16



RECEIVED BY - SIGNATURE

RECEIVED BY - PRINTED NAME

DATE RECEIVED

PACKING LIST

No. 35731 PG 2 OF 2

| LINE | QUANTITY | DESCRIPTION | WIDTH | LENGTH | WEIGHT | UNIT PRICE | TOTAL |
|---|----------|--|----------------|--------|--------|------------|-------|
| 6 | 1 PC | Our Tag # Mill Ref # Heat # 83931 536742 PACKING CHARGES MTRS (CIRCLE) FAX SHIPMENT INVOICE ALL DATE: _____ INITIAL: _____ | Total Ft 24 | | | | |
| <div style="text-align: right;"> <p>107 LBS</p> <p>DATE RECEIVED</p> </div> | | | | | | | TOTAL |

1/13/11/16



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18727

Purchase Order Date 1/07/13

PO Print Date 1/07/13

Page Number 1 of 2

Order From :

FACTORY STEEL
14020 OAKLAND AVE.
DETROIT, MI 48203
US

VU-FAC001

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

313 883 6300

313 883 4883

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
C 13/01/13

M124293

| Line Nbr | Reference Revision ID Vendor Part Number | Description/ Mfg ID | Req Date/ Taxable | Req Qty/ Unit of Measure | Ship Method | Unit Price | Extended Price |
|----------|--|---------------------------------|---|-----------------------------|-----------------|------------|-------------------|
| 1 | M4130NT0.750W.049 | 4130 RD Tube .750 x.049W | 1/15/13 Yes | 115.00 f 117.5 | Yellow Standard | \$6.3900 | \$734.85 |
| | | Special Inst: | MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 | | | | |
| 2 | M4130NT0.750W.083 ✓ | 4130 RD Tube .750 x.083W | 1/15/13 Yes | 24.00 f 26 | Yellow Standard | \$8.1000 | \$194.40 |
| | | Special Inst: | MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 | | | | |
| 3 | M4130NT1.000W.120 ✓ | 4130 RD Tube 1.00 x .120wall | 1/15/13 Yes | 24.00 f 24.5 | Yellow Standard | \$10.4500 | \$250.80 |

1/13/1/13

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required YES NO

Change Nbr:

1

Change Date: 1/07/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18727

Purchase Order Date 1/07/13

PO Print Date 1/07/13

Page Number 2 of 2

Order From :

FACTORY STEEL
14020 OAKLAND AVE.
DETROIT, MI 48203
US

VU-FAC001

Contact Name

Vendor Phone 313 883 6300

Vendor Fax 313 883 4883

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Special Inst: MATERIAL: AISI 4130N STEEL TUBING
AS PER
MIL-T-6736 OR AMS 6371/6360/6361/6362
6373/6374

| | | | | | | | |
|---|---------------------|-----------------------------|---------|-------|-----------------|----------|----------|
| 4 | M4130NT0.500W.049 ✓ | 4130 RD Tube .500 x.049W | 1/15/13 | 48.00 | Yellow Standard | \$7.2000 | \$345.60 |
| | | | Yes | f | 51 | | |

Special Inst: MATERIAL: AISI 4130N STEEL TUBING
AS PER
MIL-T-6736 OR AMS 6371/6360/6361/6362
6373/6374

| | | | | | | | |
|---|---------------------|------------------------------|---------|---------|-----------------|----------|----------|
| 5 | M4130NT0.500W.083 ✓ | 4130 RD tube .500 x .083W | 1/15/13 | ✓ 23.00 | Yellow Standard | \$8.3800 | \$192.74 |
| | | | Yes | | 24 | | |

Special Inst: MATERIAL: AISI 4130N STEEL TUBING
AS PER
MIL-T-6736 OR AMS 6371/6360/6361/6362
6373/6374

| | | | | | | | |
|---|-------------|--|---------|------|-----------------|-----------|---------|
| 6 | PACKING FEE | | 1/15/13 | 1.00 | Yellow Standard | \$35.0000 | \$35.00 |
| | | | Yes | Each | | | |

PO Total:

\$1,753.39

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required (YES) NO

Change Nbr: 1

Change Date: 1/07/13

ORDER ACKNOWLEDGMENT

No. 30587 PG 1 OF 1



FACTORY STEEL & METAL SUPPLY
14020 OAKLAND AVENUE
DETROIT, MI 48203
(313) 883-6300 PHONE
(313) 883-4883 FAX

CUST ID
DA3336
JOB NAME
RESALE #
59-2958719
SHIP TO
DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

BUYER
CHANTEL CLAYOIE
Tel (613) 632-3336
Fax (613) 632-4443
SALES REP
MICK HALON
PURCHASE ORDER #
P018727
SHIP INST
YRC
TERMS
NET 30 DAYS
ORDER DATE
01/07/2013
SHIP DATE
01/10/2013
SHIP VIA
YRC
CARRIER
YRC
BLIND Y/N
N
FOB
DETROIT

| LINE | QUANTITY | DESCRIPTION | WIDTH | LENGTH | WEIGHT | UNIT PRICE | TOTAL |
|------------------------------|----------|--|-------------|--------|------------|------------|--------|
| 1 | 5 PCS | 4130 CD SMLSS RD TUBE 3/4" OD X .049W | 19' /23' RL | | 38.514 | 6.39/FT | 670.95 |
| 2 | 1 PC | 4130 CD SMLSS RD TUBE 3/4" OD X .083W | 25' RL | | 14.487 | 8.10/FT | 198.45 |
| 3 | 1 PC | 4130N CD SMLSS RD TUBE 1" OD X .120W | 24' /26' RL | | 28.2 | 10.45/FT | 261.25 |
| 4 | 2 PCS | 4130N CD SMLSS RD TUBE 1/2" OD X .049W | 19' /24' RL | | 10.148 | 7.20/FT | 309.60 |
| 5 | 1 PC | 4130N CD SMLSS RD TUBE 1/2" OD X .083W | 23' RL | | 8.686 | 8.38/FT | 196.93 |
| 6 | 1 PC | PACKING CHARGES | | | | 35.00/PC | 35.00 |
| <p><i>Chantel Dureau</i></p> | | | | | | | |
| TOTAL WT | | SUBTOTAL | CUTTING | O/S | TOTAL | | |
| 100 LBS | | \$1,672.18 | \$0.00 | \$0.00 | \$1,672.18 | | |



PLYMOUTH TUBE CO. USA®

1209 East 12th Street, Streator, Illinois 61364
Phone: (815) 673-1515 Fax: (815) 672-7343

PRODUCT CERTIFICATION

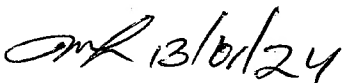
SALES ORDER - LINE ITEM/ RLS
040027 - 1 / 0

SOLD TO

Factory Steel & Metal Supply Co.
14020 Oakland Avenue
Detroit, MI 48203
USA

WORK ORDER 012409
HEAT NUMBER 745838
MELT SOURCE Benteler Steel Corp - Germany

ISO 9001:2000
AND
TS 16949:2002
CERTIFIED

| | | | | | | | | | | | | | |
|--|---------------|---|-------------|---------------|----------------|----------------|-----|-----|------|-----|------|------|------|
| CUSTOMER P.O. 8286 | CUSTOMER PART | QUANTITY | LADING NO | SHIPMENT DATE | | | | | | | | | |
| PART DESCRIPTION H07500490J800 OD: 0.7500" Max: 0.7550" Min: 0.7500" Wall: 0.0490" Max: 0.0530" Min: 0.0450" Length: 19.00' / 26.00' Spec: Mil-T 6736B Seamless Aircraft Grade: 4130 Finish: Cond N | |  | | | | | | | | | | | |
| CERTIFICATION REQUIREMENTS This material was Eddy Current tested and conforms to the requirements of ASTM A-450. This material is stress relief annealed. The final annealing temperature was 1150 degrees fahrenheit. The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112. This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as Frequency, and Severity to AMS 2301, latest revision. Yield is determined by using the 0.2% offset method. | | | | | | | | | | | | | |
| Chemical Analysis | | | | | | | | | | | | | |
| C | Mn | P | S | Si | Al | Cr | Mo | Ni | Pb | Cu | V | Ti | Sn |
| .325 | .55 | .007 | .003 | .258 | .037 | .90 | .17 | .09 | .001 | .10 | .003 | .004 | .010 |
| Physical Properties | | | | | | | | | | | | | |
| Freq. | Severity | Grain Size | | | | | | | | | | | |
| .029 | .020 | 5 | | | | | | | | | | | |
| Melt Source | | | | | | | | | | | | | |
| Melt Source Benteler Steel Corp - Germany | | | | | | | | | | | | | |
| Additional Specification(s) | | | | | | | | | | | | | |
| <u>TEST</u> | <u>UNITS</u> | <u>#TESTS</u> | <u>HIGH</u> | <u>LOW</u> | <u>AVERAGE</u> | <u>STD-DEV</u> | | | | | | | |
| Tensile | Psi | 6 | 118390 | 114560 | 116552 | 1264 | | | | | | | |
| Yield | Psi | 6 | 114070 | 109820 | 112030 | 1386 | | | | | | | |
| Elongation | % | 6 | 20 | 13 | 17 | 3 | | | | | | | |
| Rockwell B | Rb | 0 | ----- | ----- | ----- | ----- | | | | | | | |
| Rockwell C | Rc | 0 | ----- | ----- | ----- | ----- | | | | | | | |
| <u>TEST</u> | <u>RESULT</u> | | | | | | | | | | | | |
| Decarb/OD | Pass | | | | | | | | | | | | |
| Total ID/OD decarb | Pass | | | | | | | | | | | | |

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as

Gerry Cross

Jan 04 07 10:19a

Plymouth Tube CoStreator

(815) 672-7343

p. 3

**PLYMOUTH TUBE CO-USA®**1208 East 12th Street, Streator, Illinois 61364
Phone: (815) 672-1515 Fax: (815) 672-7343**PRODUCT CERTIFICATION**

SALES ORDER - LINE ITEM/ RLS

040027 - 1 / 0

SOLD TO

Factory Steel & Metal Supply Co.
14020 Oakland Avenue
Detroit, MI 48203
USA

WORK ORDER 012409

HEAT NUMBER 745838

MELT SOURCE Benteler Steel Corp - Germany

ISO 9001:2000

AND

TS 16949:2002

CERTIFIED

| CUSTOMER P.O. | CUSTOMER PART | QUANTITY | LADING NO | SHIPMENT DATE |
|---|---------------|----------|-----------|---------------|
| 8286 | | | | |
| PART DESCRIPTION: H07500490J800 OD: 0.7500" Max: 0.7550" Min: 0.7500" Wall: 0.0490" Max: 0.0530" Min: 0.0450" Length: 19.00' / 25.00' Spec: Mil-T 67368 Seamless Aircraft Grade: 4130 Finish: Cond N | | | | |
| Additional Specification(s) | | | | |
| AMS-T 6736A, 6360L & 6371J | | | | |
| This test report data is for the heat Chemistry Stated above. | | | | |
| The material in this test report is: | | | | |
| 1) Free from <u>Polybrominated Biphenyls (PBB)</u> , <u>Polybrominated Diphenyl Ethers (PBDE)</u> , and <u>Mercury</u> contamination. | | | | |
| 2) <u>NAFTA</u> compliant. | | | | |
| End of Certification | | | | |

OK 13/01/24

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Streator in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube Company.

Gerry Cross

Quality Assurance



MICHIGAN
seamless tube

TEST REPORT

SHIPMEN
001

9203

MICHIGAN SEAMLESS TUBE

SOUTH LYON, MICHIGAN 48178

| ORDER NUMBER | CUSTOMER ORDER NUMBER | DATE | OFC | COM | DIWI | NET SLS | GR SLS | ACCOUNT NUMBER | US | 1PT | PA |
|--------------|-----------------------|----------|-----|-----|------|---------|--------|----------------|----|-----|----|
| 014486 | 8441 | 05/12/04 | 51 | 00 | 16 | 16 | 01 | 02598001FCO | | 1PT | 1 |

FACTORY STEEL & METAL SUPPLY
14020 OAKLAND

DETROIT

MI

48203

FACTORY STEEL & METAL SUPPLY SN
14020 OAKLAND AVENUE TR
DETROIT INV
MI 48203

JTING
PEN TOP/FULLY TARPED/FOB SOUTH LYON MI

PPD TRUCK

| ANALYSIS | SHAPE | PRODUCT | FC | ANNEAL | REQUESTED |
|---------------|---------------|------------|-------------------|----------|-----------|
| 130-3 (EF/MQ) | ROUND | COLD DRAWN | | PER SPEC | 06/18/04 |
| EAMLESS | SPECIFICATION | CMST | DESCRIPTION | PROMISE | |
| | AMS-6371/A519 | | CD ALLOY AIRCRAFT | 06/18/04 | |

ON INSTRUCTIONS
ON PSI MIN YLD. AIM 85 PSI. CERT TO A519-96. MILT-6736BN
NOTICE 2. AMS-6360K (W/DECARB LEVELS TO AMS-6371H) & AMS-T-6736N.
/R W/SHIPMENT TO INCL CHEM. PHYS. DECARB. JOMINY. GRAIN SIZE &
RINNELL. PRODUCE FROM 1-HEAT. MARK TO INCLUDE GRADE. A519-96.
ILT-6736BN NOTICE 2. AMS-T-6736N. AMS-6371H & AMS-6360K.

| TEM | QUANTITY | O.D. | I.D. | WALL | LENGTH | WT/FT | WEIGHT | |
|-----|----------|------|------|-------------|--------|-------|--------|----------------------|
| | | .750 | | .083 AVG | | .5912 | | 11:47:52 06/21/04 |

TM BALE ---BALE---
UM NUM PCS FTG HEAT NO.
1 1 1 211 5406 001M39509

ITM PART
LENGTH STATUS NUMBER
RAND 19'-26' COM

OK 13/01/24

| HEAT NO. | C | Mn | P | S | Si | Ni | Cr | Mo | Cu | Al | REMARKS |
|----------|------|------|------|------|------|------|------|------|------|------|-------------|
| 01M39509 | .280 | .520 | .011 | .020 | .220 | .150 | .860 | .160 | .190 | .018 | EF MAC STEE |

| HEAT NO. | ULT. STR. PSI | YIELD, PSI | % ELONG | HARDNESS | HYDRO TEST PSI | ULTRA SONIC % | EDDY CURRENT | EXPANSI |
|----------|---------------|------------|---------|-------------|----------------|---------------|--------------|--------------|
| 01M39509 | 114.285 | 106.857 | 18.7 | BHN 232-239 | | | | |
| 01M39509 | 110.857 | 106.285 | 21.8 | BHN 232-239 | | | | |
| 01M39509 | 110.919 | 107.471 | 18.7 | BHN 232-239 | BEND | FLATTEN | FLARE | REV. FLATTEN |
| 01M39509 | 110.795 | 105.113 | 18.7 | BHN 232-239 | | | | FLANGI |

ECARD OK GRAIN SIZE 6

REQ 0.000 SEV 0.000

ACROS S1, R1, C1

1 J2 J3 J4 J5 J6 J7 J8 J9 J10

9 48 45 38 37 37 35 34 33 31

Eric Luster

We hereby certify that the reported data are correct according to Michigan Seamless Tube tests a



MATERIAL TEST REPORT

Page 1 of 1

Sold To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Ship To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Purchase Order: 8485
Sales Order: 126887
Material: A893100012005461 AMS 6736 10000D 120AW AMS6360,6371J
Delivery: 80202547

Description: AMS-6360L/AMS-6371J/A 6736B COND N./MIL-T-6736B
AMS 2301K / ASTM A519 S4130 A519

Test: NDT ELECTRIC TESTED TO ASTM A450 & E309. MAGNETIC INSPECTED TO AMS2301.
SEAMLESS 4130
A519

Heat Number: 556126
%

| | | |
|------------|-----|-------|
| CARBON | LDL | 0.320 |
| MANGANESE | LDL | 0.530 |
| PHOSPHORUS | LDL | 0.007 |
| SULFUR | LDL | 0.002 |
| SILICON | LDL | 0.240 |
| NICKEL | LDL | 0.140 |
| CHROMIUM | LDL | 0.870 |
| MOLYBDENUM | LDL | 0.170 |
| COPPER | LDL | 0.120 |
| ALUMINUM | LDL | 0.037 |
| R-EACH | LDL | 0.000 |
| R-TOTAL | LDL | 0.000 |

Ultimate (PSI) 118200 / 118500
Yield (PSI) 95,100 / 96,800
Elongation (%) 26 / 27
Hardness (RB) 98 / 100
Grain Size 9.000
Frequency rate 0.029
Severity 0.020
Decarb OD Total (IN) PASSED
Decarb ID Total (IN) PASSED
%

Jominy (RC) Heat: 556126 J5/16= 40 J8/16= 32
Origin of Melt Germany
Manufactured in USA

OK 13/01/24

Webco Industries, Inc. certifies that the material described was manufactured and tested and/or inspected in accordance with the specification and fulfills requirements in such respect.

This document conforms to the requirements of Specification EN 10204 Inspection Document Type 3.1.

This document was prepared by means of electronic processing and is valid without signature.

Date: 01/12/2011

Tony Stubblefield

Quality Manager



MATERIAL TEST REPORT

Page 1 of 1

Sold To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Ship To: 3300035
FACTORY STEEL & METAL SUPPLY CO.
14020 OAKLAND AVENUE
DETROIT MI 48203

Purchase Order: 1609
Sales Order: 137954
Material: A893050004905461 AMS-T-6736 05000D 049AW AMS6360,6371
Delivery: 80223699

Description: AMS-6360L/AMS-6371/AMS-T-6736B COND N./MIL-T-6736/ASTM A519
SEAMLESS 4130.

Test: NDT ELECTRIC TESTED TO ASTM A450 OR A1016 & APPLICABLE TEST METHOD E309 OR E426. MAGNETIC
INSPECTED TO AMS2301.

Heat Number: 556125
%

| | | |
|------------|-----|-------|
| CARBON | LDL | 0.310 |
| MANGANESE | LDL | 0.530 |
| PHOSPHORUS | LDL | 0.006 |
| SULFUR | LDL | 0.001 |
| SILICON | LDL | 0.240 |
| NICKEL | LDL | 0.100 |
| CHROMIUM | LDL | 0.880 |
| MOLYBDENUM | LDL | 0.170 |
| COPPER | LDL | 0.080 |
| ALUMINUM | LDL | 0.034 |
| R-EACH | LDL | 0.000 |
| R-TOTAL | LDL | 0.000 |

| | |
|----------------------|-----------------|
| Ultimate (PSI) | 116800 / 117700 |
| Yield (PSI) | 98,600 / 98,800 |
| Elongation (%) | 15 / 18 |
| Hardness (RC) | 19 / 19 |
| Grain Size | 9.000 |
| Frequency rate | 0.039 |
| Severity | 0.039 |
| Decarb OD Total (IN) | PASSED |
| Decarb ID Total (IN) | PASSED |
| | % |

Jominy (RC) Heat: 556125 J5/16 = 35 J8/16 = 30
Origin of Melt Germany
Origin of Raw Material Germany
Manufactured in USA

Webco Industries, Inc. certifies that the material described was manufactured and tested and/or
inspected in accordance with the specification and fulfills requirements in such respect.

This document conforms to the requirements of Specification EN 10204 Inspection Document Type 3.1.
This document was prepared by means of electronic processing and is valid without signature.

Date: 01/05/2012

Tony Stubblefield
Quality Manager

and 130124



PLYMOUTH TUBE CO. USA®

1209 East 12th Street, Streator, Illinois 61364
Phone: (815) 673-1515 Fax: (815) 672-7343

PRODUCT CERTIFICATION

SALES ORDER - LINE ITEM/RLS
041992 - 1 / 0

SOLD TO

Factory Steel & Metal Supply C
14020 Oakland Avenue
Detroit, MI 48203
USA

WORK ORDER 012974
HEAT NUMBER 536742
MELT SOURCE Benteler Steel & Tube-Germany

ISO 9001:2000
AND
TS 16949:2002
CERTIFIED

| | | | | | | |
|--|---------------|------------|-----------|---------------|---------|---------|
| CUSTOMER P.O. 008296 | CUSTOMER PART | QUANTITY | LADING NO | SHIPMENT DATE | | |
| PART DESCRIPTION H05000830J111 OD: 0.5000" Max: 0.5050" Min: 0.5000" Wall: 0.0830" Max: 0.0900" Min: 0.0760" Length: 19.00' / 26.00' Spec: Mil-T 6736B Seamless Aircraft Grade: 4130 Finish: Cond N | | | | | | |
| CERTIFICATION REQUIREMENTS | | | | | | |
| Chemical Analysis | | | | | | |
| C | Mn | P | S | Si | | |
| .310 | .52 | .006 | .003 | .250 | | |
| Al | Cr | Mo | Ni | Pb | | |
| .033 | .93 | .18 | .09 | .001 | | |
| Cu | V | Ti | Sn | | | |
| .12 | .003 | .003 | .012 | | | |
| Physical Properties | | | | | | |
| Freq. | Severity | Grain Size | | | | |
| .117 | .068 | 9 | | | | |
| Mechanical Properties | | | | | | |
| TEST | UNITS | #TESTS | HIGH | LOW | AVERAGE | STD-DEV |
| Tensile | Psi | 6 | 121400 | 118470 | 119642 | 1072 |
| Yield | Psi | 6 | 114050 | 112280 | 113135 | 640 |
| Elongation | % | 6 | 36 | 20 | 28 | 7 |
| Rockwell B | Rb | 0 | ----- | ----- | ----- | ----- |
| Rockwell C | Rc | 0 | ----- | ----- | ----- | ----- |
| TEST | RESULT | | | | | |
| Decarb/OD | Pass | | | | | |
| Total ID/OD decarb | Pass | | | | | |
| Additional Specification(s) | | | | | | |
| AMS-T 6736A, 6360L & 6371J | | | | | | |
| <p>This test report data is for the heat Chemistry Stated above.</p> <p>The material in this test report is:</p> <p>1) Free from <u>Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers</u></p> | | | | | | |